

---

**COMBINED DECLARATION and POWER OF ATTORNEY**  
(Utility, Design, National Stage of PCT)

---

As a below named inventor, I hereby declare that:

**TYPE OF DECLARATION**

This declaration is of the following type:

*(Check one applicable item below)*

- ☒ utility patent application
- ☐ design patent application
- ☐ national stage of PCT patent application

**INVENTORSHIP IDENTIFICATION**

My residence, mailing address, and citizenship are as stated below next to my name. I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION<sup>2</sup>**

PLANER LIGHTWAVE CIRCUIT, DESIGN METHOD FOR WAVE PROPAGATION CIRCUIT, AND  
COMPUTER PROGRAM

**SPECIFICATION IDENTIFICATION**

the specification of which:

*(complete (a), (b), or (c))<sup>3</sup>*

- (a) ☐ is attached hereto.
- (b) ☐ was previously filed June 5, 2006, as United States Patent Application Serial No.
- (c) ☒ was described and claimed in PCT International Application No. PCT/JP2005/014010 filed on August 1, 2005 and as amended under PCT Article § 19 on \_\_\_\_\_ (if any).

## ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claim(s), as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose all information which is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

## FOREIGN PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35 U.S.C. § 119(a)-(d) or (f) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application(s) which designated at least one country other than the United States of America listed below and have also identified, by checking the box, any foreign application(s) for patent or inventor's certificate or any PCT international application(s) having a filing date before that of the application(s) on which priority is claimed.

*(complete (d) or (e))*

- (d) ☐ no such applications have been filed.  
(e) ☒ such applications have been filed as follows.

*Note: Where item (c) is entered above and the International Application claims priority to a non-U.S. application, check item (e), enter the non-U.S. priority details below, and make the priority claim.*

COUNTRY	APPLICATION NUMBER	DATE OF FILING (month, day, year)	PRIORITY CLAIMED UNDER § 119 or § 365
Japan	2004-226086	August 2, 2004	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
Japan	2004-260193	September 7, 2004	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
Japan	2004-269029	September 15, 2004	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
Japan	2005-021742	January 28, 2005	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PCT	PCT/JP2005/014010	August 1, 2005	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>

## POWER OF ATTORNEY

I hereby appoint as my attorneys and/or patent agents all attorneys and/or patent agents listed under the following Customer Number, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

<b>022913</b> <b>PATENT TRADEMARK OFFICE</b> <b>CUSTOMER NUMBER</b>
---

All correspondence and telephonic communications should be directed to:

DANA L. TANGREN  
Registration No. 37,246  
Telephone (801) 533-9800  
Facsimile (801) 328-1707

## DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## SIGNATURE(S)<sup>4</sup>

*NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.*

Full name of sole or first inventor

<u>Takashi</u> (GIVEN NAME)	<u></u> (MIDDLE INITIAL OR NAME)	<u>SAIDA</u> FAMILY (OR LAST NAME)
Inventor's signature <u>Takashi Saida</u>		
Date <u>October 30, 2006</u> Country of Citizenship <u>Japan</u>		
Residence <u>Sagamihara-shi, Kanagawa</u> (city)		<u>Japan</u> (State or Country)
Mailing Address <u>c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,</u> <u>Musashino-shi, Tokyo 180-8585, Japan</u>		

Full name of second joint inventor, if any

Yohei  SAKAMAKI  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature Yohei Sakamaki  
Date October 30, 2006 Country of Citizenship Japan  
Residence Atsugi-shi, Kanagawa Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

Full name of third joint inventor, if any

Toshikazu  HASHIMOTO  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature Toshikazu Hashimoto  
Date October 30, 2006 Country of Citizenship Japan  
Residence Yamato-shi, Kanagawa Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

Full name of fourth joint inventor, if any

Tsutomu  KITOH  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature Tsutomu Kitoh  
Date October 30, 2006 Country of Citizenship Japan  
Residence Atsugi-shi, Kanagawa Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

Full name of fifth joint inventor, if any

Hiroshi  TAKAHASHI  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature Hiroshi Takahashi  
Date October 30, 2006 Country of Citizenship Japan  
Residence Atsugi-shi, Kanagawa Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

Full name of sixth joint inventor, if any

Masahiro  YANAGISAWA  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature Masahiro Yanagisawa  
Date October 30, 2006 Country of Citizenship Japan  
Residence Mito-shi, Ibaraki Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

Full name of seventh joint inventor, if any

Senichi  SUZUKI  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature Senichi Suzuki  
Date October 30, 2006 Country of Citizenship Japan  
Residence Mito-shi, Ibaraki Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

Full name of eighth joint inventor, if any

Yasuhiro  HIDA  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature Yasuhiro Hida  
Date October 30, 2006 Country of Citizenship Japan  
Residence Atsugi-shi, Kanagawa Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

Full name of ninth joint inventor, if any

Motohaya  ISHII  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature Motohaya  
Date October 30, 2006 Country of Citizenship Japan  
Residence Atsugi-shi, Kanagawa Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

Full name of tenth joint inventor, if any

Munehisa  TAMURA  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)  
Inventor's signature M. Tamura  
Date October 30, 2006 Country of Citizenship Japan  
Residence Matsudo-shi, Chiba Japan  
(city) (State or Country)  
Mailing Address c/o NTT Intellectual Property Center 9-11, Midori-cho 3-Chome,  
Musashino-shi, Tokyo 180-8585, Japan

W:\14321\85\DFW0000018691V001.doc